



National Aeronautics and Space
Administration
Jet Propulsion Laboratory
California Institute of Technology

SIM Lite Astrometric Observatory



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Monday, June 28, Orals, Session 5 & 6:

- Jim Marr, "SIM-Lite Astrometric Observatory: Progress Report" (7734-16)
- Mark Milman, "SIM-Lite narrow-angle modeling and processing" (7734-23)

Wednesday, June 30, Orals, Session 12:

- Mehrdad Moshir, "Systems engineering and application of system performance modeling in SIM-Lite Mission" (7734-52)
- Oscar lavarez-Salazar, "On-orbit dynamics and controls system architecture for SIM-Lite" (7734-53)
- Chengxing Zhai, "SIM-Lite instrument calibration sensitivities and refinements" (7734-54)
- Frank Dekens, "SIM-Lite: ground alignment of the instrument" (7734-55)
- Joel Shields, "SIM-Lite Guide-2 Telescope system identification, control design, and pointing performance" (7734-56)

Wednesday, June 30, Orals: Session 13:

- Bijan Nemati, "SIM interferometer testbed (SCDU) status and recent results" (7734-57)

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SIM Lite papers (17) - by Session

Wednesday, June 30, Orals: Session 13 (cont'd):

- Robert Smythe, "Flight qualification and performance testing of SIM precision optical mechanisms" (7734-58)
- Renaud Goullioud, "SIM-Astrometric Observatory: engineering risk reduction activity" (7734-62)

Thursday, July 1, Posters: Observing Techniques:

- Xiaopei Pan, "SIM-Lite detection of habitable planets in P-type binary-planetary systems" (7734-126)

Thursday, July 1, Posters: Technologies:

- Xu Wang, "SCDU testbed narrow angle astrometric performance" (7734-167)
- Thomas Werne, "SCDU testbed automated in-situ alignment, data acquisition, and analysis" (7734-162)
- Inseob Hahn, "Results of the Guide-2 Telescope testbed for the SIM-Lite Astrometric Observatory" (7734-165)
- Bijan Nemati, "Mitigation of angle tracking errors due to color dependent centroid shifts in SIM-Lite" (7734-166)
- Inseob Hahn, "Progress on SIM-Lite brassboard interferometer integration and test" (7734-168)
- Xin An, "SIM brassboard astrometric beam combiner (ABC) integration and performance testing" (7734-169)

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SIM Lite papers (17) - by Topic

Hardware papers:

- Xin An, "SIM brassboard astrometric beam combiner (ABC) integration and performance testing" (7734-169)
- Inseob Hahn, "Progress on SIM-Lite brassboard interferometer integration and test" (7734-168)
- Robert Smythe, "Flight qualification and performance testing of SIM precision optical mechanisms" (7734-58)
- Oscar lavarez-Salazar, "On-orbit dynamics and controls system architecture for SIM-Lite" (7734-53)
- Joel Shields, "SIM-Lite Guide-2 Telescope system identification, control design, and pointing performance" (7734-56)

Testbed papers:

- Bijan Nemati, "SIM interferometer testbed (SCDU) status and recent results" (7734-57)
- Bijan Nemati, "Mitigation of angle tracking errors due to color dependent centroid shifts in SIM-Lite" (7734-166)
- Xu Wang, "SCDU testbed narrow angle astrometric performance" (7734-167)
- Thomas Werne, "SCDU testbed automated in-situ alignment, data acquisition, and analysis" (7734-162)
- Inseob Hahn, "Results of the Guide-2 Telescope testbed for the SIM-Lite Astrometric Observatory" (7734-165)

Overview papers:

- Jim Marr, "SIM-Lite Astrometric Observatory: Progress Report" (7734-16)
- Renaud Goullioud, "SIM-Astrometric Observatory: engineering risk reduction activity" (7734-62)

System Engineering & Modeling papers:

- Mehrdad Moshir, "Systems engineering and application of system performance modeling in SIM-Lite Mission" (7734-52)
- Mark Milman, "SIM-Lite narrow-angle modeling and processing" (7734-23)
- Frank Dekens, "SIM-Lite: ground alignment of the instrument" (7734-55)
- Chengxing Zhai, "SIM-Lite instrument calibration sensitivities and refinements" (7734-54)

Science papers:

- Xiaopei Pan, "SIM-Lite detection of habitable planets in P-type binary-planetary systems" (7734-126)

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